

# Power generation with generator

Please do the following assignment practically or simulate it.

## Assignment

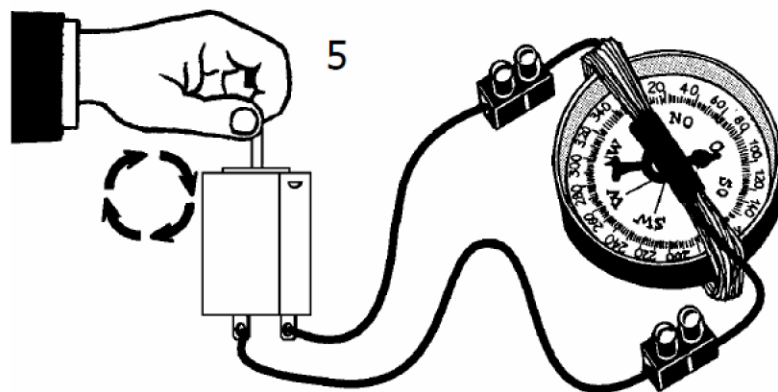
Assemble test setup No. 5 of the experiment kit with the help of the enclosed instructions and document the results. Using a multimeter, you can determine the maximum current that can be generated by the generator by hand.

To do this assignment you need:

- 1 Multimeter
- 1 Experiment kit
- 1 Set of screwdrivers
- 2 measurement cables (red and black)

## Circuit

The following circuit is used for the measurement.



## Measurement

You have to do the following steps in order to prepare the measurement:

- Please connect the generator to the coil as shown in the illustration.
- Please insert an amperemeter into the measurement setup.
- Please move the generator shaft with your fingers into a rotary motion
- Please determine the maximum current that can be generated manually with the generator using the amperemeter.
- Please document what happens to the compass needle and explain why this happens.

## Results

Please note your results here: